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the history of the Emitter

In the beginning of the 80s the company **Schäfer and Rompf** presents the amplifier **Emitter**.

The ASR Emitter - the music channel - sender of the emotion **was born!** A series, the quite different than the usual until then and a whole avalanche of developments brought the ball rolling.

The **ASR Emitter** obtained from the first unit to an **extraordinary end design**, which arose from practical considerations:

- a chassis made of acrylic with large heat sinks on both sides
- a simple, logical control with only three knobs

Why a chassis made of **acrylic**- because it just **sounds better!** We found out that an amplifier with clear acrylic chassis **pronounced more musical sounds** than the same building in a metal casing.

Acrylic has simply much **weaker and less resonance** than steel or aluminium, one reason why there are so many beautiful turntable with **turntables** and chassis made of acrylic.

A **knob** is simply better in the hand is a push button-**turn** is more logical than buttons

The technology of the emitter is from the beginning rather unconventional:

The purpose was from the very beginning, the **accuracy** and **power** efficient transistor amplifier with the inner **peace** and **balance** to good tube amplifier.

The **Emitter** was in complete departure from the usual devices to date, in principle, a **power amplifier** with **input selector switch** and **volume control**.

This shortens the signal path and allowing the waiver of the usual pre-amplifier to date.

The **Emitter** pursued so from the beginning of the concept of the **shortest possible signal path** and was pioneering for many other developments later presented a manufacturer of high-end full-amplifiers.

With the **outsourced power supply** the networkdisturbances and transformer vibrations remains out!

Of course can be **disruptive fields** can be manufactured in well casings suppress – however, what we saw - is the **negative** impact of **transformer vibrations** in the **flow of music** and working conditions for the further electronics.

The removal of the power supply was consistent continuation of the development started - to enter **new paths** – approximation to the original.

Mos Fet transistors with the **tubes** similar **characteristics curve** are from the beginning in the initial **stage built** and connect **power** and **precision** with **homogenous** sound.

Thus, the ASR Emitters from the beginning until today-when manufactured in the inner life of the ASR Emitter much has changed.

At the beginning, only a few Emitter was built for friends, but the specific nature of the ASR Emitter was got about music lover - up to the **HIFI press** – at the first test in 1985, he immediately sort by the **Stereoplay** in the **absolute top class**.

Then its really goes on - it's always been more **Emitter** ordered and sold - the company grew from ASR Audio from small beginnings to the present **size** with substantial **exports**.

The Emitter - the first generation - the foundation in the future should be built.

The **first** Emitter were built in **1982**. The first **series** of only **4 pieces** had sideways lying heat sinks, already the next is a more conventional design with separate boards per channel, on the side of **220 mm** high **heat sinks** were mounted.

In the first models were still in the transformers Emitter even built. In 1983 there was an external power supply in a relatively small unique aluminium shell (300 x 200 x 100 mm) at first with one, then with two toroidal transformers, standby transformer and relais-far-activation with power inrush current limitation.

Since 1985, with new construction of continuous motherboard:

As of **1985** there was a new version with a **continuous main board** including mounted buffer capacitors like these in principle still is under construction. The Emitter I could be to built **lower**, the height of the **heat sinks** was reduced to **170 mm**.

From the year **1987**, the rectification was displaced form the Emitter to the power supply. In the therefore significantly **increased power supply** in a 19-inch chassis with 3 HE (430x 290x 125 mm) were even more Capacitors built into the pre-buffer. This much **more complex** technology won the sound much **precision and stability**.

In **1988**, the hitherto related toroidal core transformers are replaced by the much more stable and better phonetically **PM transformers**.

In **1990**, the **buffer boards devided** for the left and right channels, and added an offset control added.

As of 1991, there was completely new developed Emitter:

Since **1991**, there are the newly developed **Emitter plus** version with a **double-sided** PCB, and Mos-Fets in all stages first in a manual version with a rotary pot as volume control. At the request was a manual step switch fitted.

As of **1992** it was already on the new board to relay **relay-step-switch** with micro-controllers and **remote control** and realized from 1993 standard.

From **1993** received the Emitter a **energy-saving circuit** in the power supply. This allows for **low-power needed** switching to a lower (25%) output power at only **30%** of **energy consumption**. The **Emitter II** plus received two separate channel power supplies.

From **1994** the until delivered double-line **LCD** display with **5 mm** type height was detached by the new **LED** display with **25 mm** high numbers and replaced **standard silver wiring** in the signal wiring installed.

At the **end of 1994**, Mr. Rompf resigned from the company Schäfer and Rompf. He made his **hobby - motorcycling** on his career and opened a **motorcycle shop**.

The company was renamed to the **end of 1995** in **ASR Audio Systems Friedrich Schäfer**.

In **1995**, the Emitter presents in the **High-Definition Version**. In the **HD Version** were at first in a series produced relatively cheap HI-FI Amplifier **ultrafast Rectifier** from the switching technology used.

In extensive hearings, we identified the sound effect of various power cord. .

Finally we decided on a high with ferrite shielded power cable, which is primarily only in the **HD Versions** of standard was delivered.

1997 there were important changes:

From **1997**, the Emitter HD was delivered in version 1.3. Established were powerful **Audio-Output-transistor** by Toshiba with significantly greater **capacity impulse**, faster **Capacitors** and the new **Superfast** power supply with a total of 56 ultra-fast diodes.

The significantly **more stable case** of the power supply was manufactured with **thicker sheet metal** and get a **structure lac**. About the now **30 pin plug** for the **supply cable** to the Emitter (instead of 20 previously pole) was also the **entry level** directly from the power supply.

For **standby transformer** was insert a high-quality **shielded** PM transformer. By **shielding flow** almost no more interference flows from the **power supply** in the amplifier.

With all these **improvements** have been given the Emitter a much better precision **drawing** with greater **dynamic** in the preservation of **internal peace** and **stability** of reproduction.

The Emitter **Plus** versions received in **1999** parts of the **V1.3 technology**, and also the fast diodes from the **HD-power supplies**, and are now a **small HD-Version**.

Since the **summer of 1997**, as a further option for the **Emitter HD** is an additional **battery power supply** for the input stages available.

From **mid 1999**, the battery power supply has a new board with modified arrangement of the components and a display for the state of charging batteries.

Since the year **2000**, there is the **Blue Version** with a **blue display**, **blue LEDs** on the main board and **silver heatsink** and silver knobs.

From **2002**, there was a clear **appreciation** of the standard equipment:

1. New **ASR design remote control** from the **Corian** solid milled with mechanical switches with sensible **push of a button, stainless steel knobs** and a flat **lithium battery** for long life.
2. The **Emitter HD** delivered with the balanced input, standard - no extra charge.
3. New **board** for the **balanced input** with specially designed chip and dip switches with **adjustable input resistance**.
4. New ASR power cord "**ASR Magic Cord**" for greater dynamic due to increased cross-section, **double shielding**, transparent sheath (thereby **silver optics** instead of previously black). Because of the new, finer wires is the Magic Cord flexible to relocate.
5. New, **solid terminal** with rotary-knob for Emitter I just like Emitter II
6. New **encoders** for the volume control with smoothly run.
7. New **board** into the **ASR-power supplies**. The arrangement of the components has been **optimized**, two main transformers are separately and successively with 6 relay from **energy savings** in the full load mode. All **8 tensions** and the modes of operation are with **12 LEDs** directly behind a display window in the front panel.

On request, there was the power supply with a **built-in active filter**. It is also a **high-load fuse** with the transitional least resistance instead of the usual fine-mounted fuse.

From **September 2003** was built in a new **microcontroller** with internal memory. Therefore more stable program flow and reduced HF dispersion from data bus.

As of **March 2004**, the heatsink individually high frequency removed. This improves the spatial resolution and detail of the sound image.

From **October 2004**, a revised filter into the battery power supplies fitted. Thus, the ASR Emitter with battery power supply is much faster and the room still holographic. The play is still tonal but still rather quiet and tonal balance.

From **November 2004**, are:

- * A new **solid metal relief** for the **cable** from the main unit to the power supply.
- * New **connection cable** between the Emitter and power supply with **low-loss** insulation material.
- * In the **Emitter power supplies** is a standard **low-loss high loading fuse** and a larger **20-ampere power plug** fitted. The **lower net losses** in connection sound Emitter dynamic, precise and the bass playing is tight.
- * The **compensation** of amplifiers in the Emitter can be equipped with a switch on the motherboard increased. This is difficult loads such as cables or high capacitive cables or impedance-critical speakers increased stability. The sound image is simultaneously something round.

In May 2005 ASR presented at the High End:

The new emitter Exclusive !

The new **Emitter Exclusive** are the successors of manufactured since 1995 Emitter HD Series.

The **Emitter Exclusive** receive entirely **new power supply cases**, a modified, high-quality connector, **brass** mounting bar and the Emitter II **new heatsinks**.

The **new cases** with 460 x 320x 160 mm something **bigger**, have **rounded** edges and are of **stronger** and thereby **solid** sheet manufactured. The side panels, along with the base plate of **one piece**. The entire structure consists of fewer, but more stable parts. The ventilation opening are an ASR logo.

With the **larger venue**, the individual components and boards better spatially **separated mounted**. This reduces the transfer of fields and resonances. The **standby transformer** is now **lying mounted**.

The Exclusive power supplies are **3 kg heavier** than its predecessor, the entire structure is clearly **stable** and has **less resonance**. The new, significantly more **stable connectors** come from industrial electronics and are managed by the renowned German manufacturer Harting.

The **battery power supply** of the **Emitter Exclusive** has been completely new-designed:

The **batteries** are now on the back wall. The tax board is now forward behind the front panel. The **charging transformer** is **centrally** situated in the unit mounted.

The **control LEDs** can forward look through the window the connecting cables were cut.

The new case has with the new, **more stable structure** has been **less resonance**, and sounds so much better than the previous version.

Into the amplifier-part of the **Emitter Exclusive** series are insert stable **mounting bar** of **brass**. The Emitter **HD** had inserted black anodized **aluminium**.

Brass is much **heavier** and has a much more **harmonious resonance spectrum** as aluminium. *Brass is also the material for many music instruments!*

On the **Emitter II Exclusive** are **heatsinks** insert with modified, **stiffen profile**.

because of both changes resoniert the construction of the Emitter II Exclusive significantly less -

because of all this news the Emitter Exclusive sound more dynamic and more accurate.

January 2006 - the Exclusive technical for all models :

The new **Emitter I and II** (without the added plus) from **2006**, the new complex **cases and Harting - connectors** and the **brass bar** as in the current Exclusive models.

The **Emitter Exclusive** be equipped with the **active network filter** in the power supply.

The **Emitter II Exclusive** is available on request **with golden heatsink**.

The **Basis Exclusive** will be delivered with the **new power supply cases** and Harting-connector.

*Since over a **quarter century**, was the ASR Emitter offered and have a fixed position in the otherwise so changeable hi-fi market.*

*The **ASR Emitter**, with its **unique design** and the many unusual **detail solutions** in conjunction with its **round-balanced**, long-term, relaxed listening **inviting sound**, is a special offer for **the music connoisseurs**.*

All Emitter models reproduce music very organic and fluid.

*The **ASR Emitters** are manufactured **completely in Germany** by experienced staff under pleasant **working conditions** in a quiet **company** located next to a forest, **overlooking the green**.*

*Through constant optimization of production, the **ASR Emitter** for our customers has always been to a given the **extraordinary** effort to a **high relative** to the market offer quite favorable price.*

*In its **long production history** the Emitter was always sensitive improved, the **dynamics** has grown significantly, the Emitter were **comfortable** and **efficient**.*

*But from the beginning of the **ASR Emitter** our customers are fascinated with its **subtle, balanced and superficial effects** keep off from **playback**, and offers our many thousands of customers since **many years** **relaxing music enjoyment**.*

*By **upgrading** the Emitters used in new parts can within a generation model of the **ASR Emitter** repeatedly in **further developments**.*

*For example, in many families the **Emitter** goes to a **heirloom**, often not sold, but in the family passed. This is a **sign of satisfaction** of our customers.*

*In the Meantime the **ASR Emitter** had found **followers worldwide**.*

*ASR has a **global distribution network**.*